

**ENHANCED HART DEVICE ALERTS
IN A PROCESS CONTROL SYSTEM**

ABSTRACT OF THE DISCLOSURE

Enhanced HART device alerts enable HART devices within a process control
5 system to report alarm or alert conditions that are detected within the devices to a
system user or operator using a plurality of intuitive device status conditions, each of
which corresponds to a different level of severity and each of which may require a
different type of response by the system user or operator. The status conditions are
consistent with enhanced Fieldbus device alerts and include a condition associated
10 with a failure of a HART device, a condition associated with maintenance needed by a
HART device and an advisable action in connection with a HART device.